Journal of Fluid Mechanics **Volume 367 25 July 1998**

E. J. Zuercher, J. W. Jacobs & C. F. Chen Experimental study of the stability of boundary layer flow along a heated, inclined plate *page* 1

Ø. Andreassen, P. Ø. Hvidsten, D. C. Fritts & S. Arendt Vorticity dynamics in a breaking internal gravity wave. Part 1. Initial instability evolution 27

D. C. Fritts, S. Arendt & Ø. Andreassen Vorticity dynamics in a breaking internal gravity wave. Part 2. Vortex interactions and transition to turbulence 47

S. A. Arnette, M. Samimy & G. S. Elliott The effects of expansion on the turbulence structure of compressible boundary layers 67

M. L. Banner & X. Tian On the determination of the onset of breaking for modulating surface gravity water waves 107

I. H. Cho & M. H. Kim Interactions of a horizontal flexible membrane with oblique incident waves 139

F. Mashayek Droplet–turbulence interactions in low-Mach-number homogeneous shear two-phase flows 163

X. Chen, T. Shi, Y. Tian, J. Jankovsky, R. G. Holt & R. E. Apfel Numerical simulation of superoscillations of a Triton-bearing drop in microgravity 205

I. Kim, S. Elghobashi & W. A. Sirignano On the equation for spherical-particle motion: effect of Reynolds and acceleration numbers 221

R. D. Moser, M. M. Rogers & D. W. Ewing Self-similarity of time-evolving plane wakes 255

L. Ong & J. M. Wallace Joint probability density analysis of the structure and dynamics of the vorticity field of a turbulent boundary layer 291

W. Zhang & H. A. Stone Oscillatory motions of circular disks and nearly spherical particles in viscous flows 329

N. R. McDonald The motion of an intense vortex near topography 359

BOOK REVIEWS

A Modern Introduction to the Mathematical Theory of Water Waves, by R. S. Johnson 378

SHORT NOTICES 379

INDEX TO VOLUME 367 382

Now Online
http://www.journals.cup.org

CAMBRIDGE
UNIVERSITY PRESS

JFLSA7 367 1–382 (1998) 0022–1120 © Cambridge University Press 0022-1120(199806)367;1-S